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Enter terms
Search

[Reset](#) Sort By: Open Date (descending)

- [Relevancy \(descending\)](#)
- [Title \(ascending\)](#)
- [Open Date \(ascending\)](#)
- [Close Date \(descending\)](#)
- [Release Date \(descending\)](#)

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Displaying 41 - 50 of 811 results



1. [SB133-005: Manufacturing and Strength Improvement for Thick Carbon-Carbon Laminates](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

This topic is eligible for the DARPA Direct to PHASE II Pilot Program. Please see section 7.0 of the DARPA instructions for additional information. To be eligible, you must submit documentation which demonstrates that PHASE I feasibility (as described in PHASE I below). Offerors must choose between submitting a PHASE I proposal OR a Direct to Phase II proposal, and may not submit both for the same topic. OBJECTIVE: Develop robust manufacturing and strength improvement concepts for 2D laminate hot load bearing carbon-carbon structures.

SBIR Department of Defense Defense Advanced Research Projects Agency

2. [OSD13-C01: Integrated Computational Materials Engineering in Multiphysics Software](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: The objective of this research is to demonstrate a spatially-dependent calculation of detailed microstructural evolution (e.g., grain structure, texture, precipitation kinetics, phase transformations, etc.) in the modeling of processing of a structural material ultimately providing or enhancing commercial multiphysics software (e.g., general multiphysics or specialized for welding, for ...

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3. OSD13-C02: A Semantic Technology for Materials Design and Development

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate the foundational elements required to create a semantic technology for materials design and development. DESCRIPTION: Several foundational elements required to achieve Sir Tim Berners-Lee's vision for a semantic web are in place and available to the materials community. The semantic web, sometimes referred to as the web-of-data, focuses on ontologies as well ...

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4. OSD13-C03: Making Practical Use of Electromagnetic Fields in Materials Processing and Applications

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop predictive computational models/tools to exploit the effect of electromagnetic fields in materials processing that enables tailored polycrystalline microstructures, enhanced properties, and shortened materials development cycles beyond the current state-of-the-art. DESCRIPTION: The Army is interested in applying external physics-based fields during the processing of materia ...

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5. OSD13-C04: Stochastic Modeling for Structural Materials Properties

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: The objective of this project is to design and develop a modeling tool for materials designers, which uses as input on the microstructure quantitative statistical measures of structure variations and features, and provides efficiently information on materials behavior with robust quantitative measures of performance variations and their correlations with microstructure features. This ...

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6. OSD13-C05: Design Automation Software for Integrated Nanophotonics

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop and validate next generation system-on-chip electronic-photonic system simulation tools. DESCRIPTION: Today, the military and commercial application spaces for silicon photonics are expanding very rapidly. The first wave of commercial products are aimed at the telecommunications and data communications spaces, but applications in biosensing, analog data processing, coheren ...

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7. OSD13-EP1: Phase Change Thermal Buffers for Environmental Control Unit Efficiency Improvement

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate a phase change material based thermal buffer to enable "rightsizing" of environmental control units (ECUs) and improve overall efficiency through reduced peak loads, more stabilized ECU operation, and off-peak thermal energy storage. DESCRIPTION: Military Environmental Control Units (ECUs) represent one of the dominant energy users in forward operating environm ...

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8. OSD13-EP2: High Efficiency Electric Power Manager for Man-Portable Photovoltaic Systems

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate an electric power management system that will couple low power photovoltaic (PV) energy generating devices with a Li-ion battery with at least 96% module efficiency. DESCRIPTION: Renewable energy, specifically photovoltaic, is an attractive technology for man-portable power sources and tactical applications. However, to be effective as a system, it is necess ...

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9. OSD13-EP3: High Efficiency Flexible Photovoltaics

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: Develop and demonstrate photovoltaic arrays that are flexible and can achieve greater than 20% solar photon to electrical conversion efficiency in a lightweight configuration. DESCRIPTION: Photovoltaics (solar cells) are an attractive technology to provide renewable energy sources for forward operating bases, man-portable power sources, and tactical applications. Solar arrays can p ...

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10. OSD13-EP4: Ultra-High Power Density Solid Oxide Fuel Cell Stack for High Efficiency Propulsion and Power Systems

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date: 09-25-2013

OBJECTIVE: To develop an ultra-high power dense solid oxide fuel cell (SOFC) stack (>500 W/kg) capable of supporting high efficiency, logistic-fueled propulsion and power systems for small autonomous vehicles and mobile power generation. DESCRIPTION: Small unmanned

aerial systems (S-UAS), unmanned ground systems (UGS), vehicle auxiliary power units (APU), and mobile power generation units r ...

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- [First](#)
- [Previous](#)
- [1](#)
- [2](#)
- [3](#)
- [4](#)
- [5](#)
- [6](#)
- [7](#)
- [8](#)
- [9](#)
- ...
- [Next](#)
- [Last](#)

```
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```